# INDEX TO VOLUME 60

## Author Index\*

ABELMANN, WALTER H. (See Carleton, et al.),

Aceves, S. (See Franco-Browder, et al.), 545 ADAMS, PAUL, JR. (See Manubens, et al.), 286 ANDERSON, DAPHNE. (See Fowler, et al.), 551

Angelino, P. F., Caruzzo, C., Lo Bue, B., AND CALÒ, C. Epicardial low-frequency tracings of the left atrium. A comparison with the preoperative esophageal pulse in mitral defects,

Anselmi, Guillermo. (See de la Cruz, et al.), 675

Armbrust, C. A., Jr. (See Livesay, et al.), 955 Arnott, W. Melville, Heath, Donald, and HOWELL, JOHN. Clinical pathologic conference, 139

August, Stanley. (See Dressler, et al.), 721

BADEER, HENRY. Effect of heart size on the oxygen uptake of the myocardium, 948

BAER, HANS, AND BLOUNT, S. GILBERT, JR. The response of the serum glutamic oxalacetic transaminase to openheart operation, 867

BAJUSZ, E., AND SELYE, H. Influence of variations in dietary intake of chlorides upon diverse necrotizing cardiopathies, 266

BALLEW, DONALD W. (See Dodge, et al.), 762
DE BEER, EDWIN J. (See Colville, et al.), 237
BELJAEVA, N. (See Speransky and Beljaeva),
855

OL, Alberto, Dimond, E. Grey, Waxman, David, and Shen, Yen. Diastolic movements of the pre-BENCHIMOL, cordium in mitral stenosis and re-

gurgitation, 417
Bendezu, Jesus. (See Imperial, et al.), 705 BERG, KNUT JOACHIM. Multifocal ventricular extrasystoles with Adams-Stokes syndrome in siblings, 965
Berglund, Earl M. (See Buchman and Berg-

lund), 863

BERNARD, GEORGE R., AND SUDAK, FREDERICK N. Experimental trichinosis in the golden hamster. II. Electrocardiographic changes, 88

BERNSTEIN, LIONEL M. (See Schoolman, et al.), 526

BERNSTEIN, WILLIAM H. (See Samet, et al.), 433

Besoain-Santander, Manuel, and Gómez-EBENSPERGUER, GERARDO. Electrocardiographic diagnosis of myocardial infarction in cases of complete left bundle branch block, 886

Beswick, F. W. (See Jordan and Beswick), 80 Binak, Kenan, Regan, Timothy J., Christensen, Raymond C., and Hellems, HARPER, K. Arteriovenous fistula: hemodynamic effects of occlusion and exercise, 495

BISTENI, ABDO. (See Medrano, et al.), 562 BJÖRK, VIKING OLOV, LODIN, HERMAN, AND MALERS, ELIS. The evaluation of the degree of mitral insufficiency by se-lective left ventricular angiocardiography, 691.

BLEIFER, SELVYN. (See Scheuer, et al.), 33

BLEIFER,
BLOUNT, S. GILBERT,
Blount), 867
BLUMENFELD, S. (See Scherf, et al.), 936
BOGDONOFF, M. D. (See Gunnells, et al.), 231
BOINEAU, JOHN P., SPACH, MADISON S., AND
HARRIS, JEROME S. Study of premature systoles of the canine heart gram, 924

Booth, Richard, W. (See Chou, et al.), 371 —. (See Hartman and Booth), 716

BORNEMANN, CARL. (See Scherf, et al.), 179
BRADSHAW, J. CARL. (See Brody, et al.), 581,
840 (Annot.)
BRAUNSTEIN, JOHN R. (See Fowler, et al.), 551
BRAUNWALD, EUGENE. (See Collins, et al), 624

Brody, Daniel A., and Evans, John W. Some reflections on zero potential in electrocardiography, 661 (Annot.)

—, Erb, Blair D., Evans, John W., and Bradshaw, J. Carl. Some funda-mental relationships between oscillo-

graphic and spectrographic phonocardiograms, 581

-, Evans, John W., and Bradshaw, J. Carl. The lead tensor: its nature and prospective applications, 841 (B. Rev.)

BUCHMAN, ELWOOD, AND BERGLUND, EARL M. Bacteremia following sigmoidoscopy,

Burch, George E., and DePasquale, Nicho-LAS. A study at autopsy of the relation of absence of the Q wave in Leads I, aVL, V6, and V6 to septal fibrosis, 338

<sup>\*</sup>July, pp. 1-162; August, 163-326; September, 327-490; October, 491-668; November, 669-844; December, 845-1022.

---- AND ---- . The electrocardiogram, spatial vectorcardiogram, and ventricular gradient in congenital ventricular septal defect, 195

- AND DEPASQUALE, NICHOLAS P. The effect of norepinephrine on the digital veins, 915

- AND PHILLIPS, JOHN H. Hypertension and arteriosclerosis, 163

. (See Hibbs, et al.), 121 Burns, J. H. (See Schafer, et al.), 388

Cabrera, Enrique, and Gaxiola, Alfonso. Diagnostic contribution of the vectorcardiogram in hemodynamic over-

Cardiogram in hemodynamic overloading of the heart, 296
CALÒ, C. (See Angelino, et al.), 188
CAMPBELL, R. S. F., LAWRIE, T. D. V., LIEBES-CHUETZ, H. J., MCALPINE, S. G., PIRRIE, R., AND RIFKIND, B. M. Studies on the influence of anabolic steroids on experimental atheroma: 17 - alpha - ethyl -19 - nortestosterone (Nilevar), 799

CARLETON, RICHARD A., LEVINSON, GILBERT E., AND ABELMANN, WALTER H. Assessment of mitral regurgitation by indicator dilution: a modification of the variance method of Korner and

Shillingford, 396

CARROLL, JOHN. (See Reeves, et al.), 745
CARUZZO, C. (See Angelino, et al.), 188
CASSELS, DONALD E. (See Jones, et al.), 464
CASTILLO, CESAR A. (See Rowe, et al.), 777
CHEVALIER, ROBERT B. (See Fisch, et al.), 220

CHOU, TE-CHUAN, SCOTT, RALPH C., BOOTH, RICHARD, W., AND MCWHORTER, HOWARD B. Specificity of the current electrocardiographic criteria in the diagnosis of left ventricular hypertrophy, 371

CHRISTENSEN, RAYMOND C. (See Binak, et al.), 495

COGHLAN, CECIL. (See Reeves, et al.), 745 COHEN, DOUGLAS H. The repair of atrial septal defects, 1001 (Annot.)

COLLINS, N. PERRYMAN, MORROW, ANDREW G., AND BRAUNWALD, EUGENE. Tetralogy of Fallot with rheumatic ste-

nosis of the aortic valve, 624
COLVILLE, KENNETH I., SCHRODER, JOHN C.,
DE BEER, EDWIN J., AND GAHAGAN, LAWRENCE H. Response of the coro-nary arterial bed to electroshock: an experimental study in dogs, 237

COURTICE, F. C. Mechanisms of lipid accumulation in atherogenesis, 664 (Annot.) CRAIGE, ERNEST. Phonocardiography in inter-

ventricular septal defects, 51 CRUMPTON, CHARLES W. (See Rowe, et al.), 777 DE LA CRUZ, MARÍA V., ANSELMI, GUILLERMO, ROMERO, ANGEL, AND MONROY, GUILLERMO. A qualitative and quantitative study of the ventricles and great vessels of normal children, 675

Cullhed, Ingemar, Malers, Elis. INGEMAR, LODIN, HERMAN, AND Mega-aorta in a young man, 128

DAVIES, A. MICHAEL, AND GERY, IGAL. The role of autoantibodies in heart disease, 669

DAWKINS, W. A. (See Lumb and Dawkins),

DEGRAFF, ARTHUR C. The problem of drug dosage, 327

DEPASQUALE, NICHOLAS. (See Burch and De-Pasquale), 195, 336, 915

DIJI, A., AND GREENFIELD, A. D. M. The local effect of carbon dioxide on human blood vessels, 907

DIMOND, E. GREY. (See Benchimol, et al.), 417 DINON, LOUIS R., AND VANDER VEER, JOSEPH B. Recurrent myocardial infarction after cessation of anticoagulant therapy, 6

HAROLD T., LORD, JOHN D., AND SANDLER, HAROLD. Cardiovascular effects of isoproterenol in normal DODGE, subjects and subjects with congestive heart failure, 94

, SANDLER, HAROLD, BALLEW, DONALD W., AND LORD, JOHN D., JR. The use of biplane angiocardiography for the measurement of left ventricular volume in man, 762

Donoso, Ephraim. (See Kahn, et al.), 23 -. (See Scheuer, et al.), 33

DOTTER, CHARLES T. Venous air embolism complicating angiocardiography: an illustrative case report, 454

Dressler, William, August, Stanley, Epstein, Israel, and Rosenberg, Ben-JAMIN. Pericarditis following mild or silent coronary episodes: an attempt at narrowing the field of idiopathic pericarditis, 721

DUFFEY, LOWELL M. Initial events in cardiogenesis, 848

Edson, John N., and Schluger, Joseph. A review of the benzothiadiazine derivatives in relation to cardiovascular disease, 641

-. Subendocardial myocardial infarction,

EDWARDS, JESSE E. (See Rogers, et al.), 281

EICH, ROBERT H. The role of myocardial dysfunction in mitral stenosis, (Annot.)

ELDER, JOHN C. (See Goyette and Elder), 536 EPSTEIN, ISRAEL. (See Dressler, et al.), 721 ERB, BLAIR D. (See Brody, et al.), 581

Evans, John W. (See Brody and Evans), 661 (Annot.)

-. (See Brody, et al.), 581, 840 (Annot.)

FANTL, P. The acid mucopolysaccharides, 665 (Annot.) FINLAYSON, JAMES K. (See Yu, et al.), 503

FIECH, CHARLES, MARTZ, B. L., AND PRIEBE, FRED H. Transient effect of potassium on A-V conduction and ventricular tachycardia produced by acetyl-strophanthidin: demonstration of supernormal conduction, 212

-, STEINMETZ, EDWARD F., AND CHEVALIER, ROBERT B. Transient effect of intra-venous potassium on A-V conduction and ventricular ectopic beats: clinical

study, 220

FISHER, EDWIN R., AND HELLSTROM, H. R. Evidence in support of the neoplastic nature of cardiac myxoma, 630

FLEISHER, DAVID R., AND LINDE, LEONARD M. Gitalin studies, 520

FOWLER, NOBLE, O., SHABETAI, RALPH, ANDER-SON, DAPHNE, AND BRAUNSTEIN, JOHN R. Some circulatory enects of capenal mental hypovolemic anemia, 551 GORODEZKY, M.,

Franco-Browder, S., Gorodezky, M., Aceves, S., and Guerrero, M. Myocardial infarct-like lesions produced by histamine liberators in rats. Pre-

liminary report, 545
FREEMAN, D. J. (See Rowe, et al.), 777
FREIS, EDWARD D., RIVARA, GEORGE L., AND
GILMORE, BRUCE L. Estimation of residual and end-diastolic volumes of the right ventricle of men without heart disease, using the dye-dilution method, 898

-. (See Mohler and Freis), 329

G

GAHAGAN, LAWRENCE H. (See Colville, et al.), 237

GAXIOLA, ALFONSO. (See Cabrera and Gaxiola), 296

GERY, IGAL. (See Davies and Gery), 669
GILBERT, ROBERT. Recurrence of symptoms
following mitral valvulotomy, 658 (Annot.)

GILMORE, BRUCE L. (See Freis, et al.), 898 GITLOW, STANLEY E. Urine tests for pheo-

chromocytoma, 149 (Annot.)
GLOVER, WALTER E. Cholinergic vasodilator nerves to human skeletal muscle, 321 (Annot.)

GOLDMAN, ARTHUR G., GROSS, HARRY, AND RUBIN, IRA L. Transitory Q waves simulating the Q wave of myocardial infarction, 61

GÓMEZ-EBENSPERGUER, GERARDO. (See Beso-aín-Santander and Gómez-Ebensper-

guer), 886 GORODEZKY, M. (See Franco-Browder, et al.), 545

GORTEN, R. (See Gunnells, et al.), 231 GOYETTE, EDWIN M., AND ELDER, JOHN C. The use of Triparanol to lower serum

cholesterol, 536
GRANSTON, ARTHUR S. (See Jones, et al.), 464
GREENFIELD, A. D. M. (See Diji and Greenfield), 907
GREENFIELD

GRISHMAN, ARTHUR. (See Kahn, et al.), 23 . (See Scheuer, et al.), 33

GROSS, HARRY. (See Goldman, et al.), 61

GROSSMAN, BURTON J. (See Jones, et al.), 464 GUERRERO, M. (See Franco-Browder, et al.),

Gunnells, J. C., Gorten, R., Bogdonoff, M. D., and Warren, J. V. The effect of alterations in arousal of the central nervous system upon cardiovascular response to intravenous epinephrine,

H

HADDY, FRANCIS J. Peripheral vascular re-

HALE, ALFRED R. Circle of Willis. Functional

concepts, old and new, 491

HALLIDAY, JOHN A. Blood flow in the human calf after prolonged walking, 110

HAMER, NEIL A. J. Division of the P wave by

the Sondergaard suture, 739
HARASAWA, M., AND RODBARD, S. Ventilatory air pressure and pulmonary vascular

resistance, 73

HARRIS, E. A. Systolic murmurs, 483 (Annot.) HARRIS, JEROME S. (See Boineau, et al.), 924 HARTMAN, JOHN M., AND BOOTH, RICHARD W. Friedreich's ataxia: a neurocardiac disease, 716

HARVEY, ROGER A., KRAKOWER, CECIL A., AND ROBERG, NORMAN B. Clinicalpathologic conference, 823

HARVEY, W. PROCTOR. (See Perloff and Harvey), 804

HEATH, DONALD. (See Arnott, et al.), 139 HEFNER, LLOYD L. (See Reeves, et al.), 745 HELLEMS, HARPER K. (See Binak, et al.), 495 HELLSTROM, H. R. (See Fisher and Hellstrom), 630

Helm, Robert A. Electrocardiographic can-cellation: mathematical basis, 251 Henke, Richard P., March, Harold W., AND HULTGREN, HERBERT N. An aid to identification of the murmur of

aortic stenosis with atypical locali-

zation, 354
HENRY, M. J., STOECKLE, H. G. E., AND HOPPS,
H. C. Periarteritis in a 4-month-old infant unresponsive to penicillinase, 817

HERTAULT, JEAN. (See Medrano, et al.), 562
HIBBS, RICHARD G., BURCH, GEORGE E., AND
PHILLIPS, JOHN H. Electron-microscopic observations on the human

mast cell, 121 Hodge, J. V., and Smirk, F. H. Hypotensive action of bretylium tosylate (Darenthin), 539

HOPPS, H. C. (See Henry, et al.), 817 HORVATH, STEVEN M. (See Willard and Horvath), 244

HOWELL, JOHN. (See Arnott, et al.), 139
HOWELL, WILLIAM L., AND MANION, WILLIAM
C. The low incidence of myocardial infarction in patients with portal cirrhosis of the liver: a review of 639 cases of cirrhosis of the liver from 17,731 autopsies, 341 Huggins, C. G., and Walaszek, E. J. Depres-

sor polypeptides, 976 HULTGREN, HERBERT N. (See Henke, et al.),

Imperial, Elias S., Bendezu, Jesus, and Zimmerman, Henry A. Electrocardiographic analysis of pure mitral valvular disease: a study based on fifty-seven cases with open-heart operation, 705

Jonas, Sterling, and Richman, Sidney M. Double nodal rhythm with A-V dissociation, 811

Jones, Richard J., Granston, Arthur S., Williams, James R., Grossman, Burton J., and Cassels, Donald E.

Clinical-pathologic conference, 464
JONES, WILLIAM B. (See Reeves, et al.), 745
JORDAN, R. C., AND BESWICK, F. W. A simple
improved triangular reference frame
for determination of frontal plane vector angles from limb lead data, 80

Jose, Anthony D., McGaff, Charles J., and Milnor, William R. The value of injections of dye into the left heart in the study of mitral and aortic valvular disease by catheterization of the left heart, 408

KAHN, MELVIN, SCHEUER, JAMES, WACHTEL, FRED, GRISHMAN, ARTHUR, AND DO-NOSO, EPHRAIM. An evaluation of the ratio of P-wave duration to P-R segment in the diagnosis of atrial enlargement, 23

-. (See Scheuer, et al.), 33 KATZ, YALE J. Uremia, the ECG, and levels of serum potassium, 320 (Annot.)

KAY, JEROME HAROLD. The surgical treatment of aortic stenosis, 320 (Annot.)

KELLAWAY, GAVIN. Acute anoxic cardiac failure in pulmonary heart disease, 487 (Annot.)

Krakower, Cecil A. (See Harvey, et al.), 823 KROVETZ, L. JEROME. (See Manubens, et al.), 228

LAWRIE, T. D. V. (See Campbell, et al.), 799 Yu-CHEN. Quinidine intoxication: an experimental study of the effect of molar sodium lactate and potassium

chloride, 785
LEVINE, HERBERT J., AND LEVINE, SAMUEL A.
Myxedema ascites: report of two cases, 456

LEVINE, SAMUEL A. (See Levine and Levine), 456

LEVINSON, GILBERT E. (See Carleton, et al.), 396

LEVY, MATTHEW N. (See Martins de Oliveira

and Levy), 106, 444 Liebeschuetz, H. J. (See Campbell, et al.), 799

LINDE, LEONARD M. (See Fleisher and Linde), 520

LITTMAN, ARMAND. (See Schoolman, et al.), 526

LIVESAY, W. R., WAGNER, E. L., AND ARM-BRUST, C. A., JR. Functional sub-aortic stenosis due to cardiomyopathy of unknown origin, 955

Lo Bue, B. (See Angelino, et al.), 188 Lodin, Herman. (See Björk, et al.), 691
—. (See Cullhed, et al.), 128

LORD, JOHN D. (See Dodge, et al.), 94 LORD, JOHN D., JR. (See Dodge, et al.), 762 LOVEJOY, FRANK W., JR. (See Yu, et al.), 503 LUCAS, B. G. B. Cerebral anoxia, 838 (Annot.) LUMB, GEORGE, AND DAWKINS, W. A.: Congenital atresia of mitral and aortic valves with vestigial left ventricle (three cases), 378

LURIA, MILTON N. (See Yu, et al.), 503

McAlpine, S. G. (See Campbell, et al.), 799 McGaff, Charles J. (See Jose, et al.), 408 McGuire, Johnson. Acute nonspecific peri-carditis (idiopathic pericarditis, "vicarditis (idiopathic pericarditis, rus" pericarditis, acute benign peri-

mcPне, J. M. Cardiac glycogenosis, 836 (Annot.)

McWhorter, Howard B. (See Chou, et al.), 371

MALERS, ELIS. (See Björk, et al.), 691

—. (See Cullhed, et al.), 128
MALLORY, G. KENNETH. (See Rodriguez, et al.), 168

Manion, William C. (See Howell and Manion), 341

MANUBENS, RODRIGO, KROVETZ, L. JEROME,
AND ADAMS, PAUL, JR. Supravalvular
stenosing ring of the left atrium, 286
MARCH, HAROLD W. (See Henke, et al.), 354
MARTINS DE OLIVEIRA, JORGE, AND LEVY,
MATTHEW N. With the assistance of

Schock, Martin I. Effects of hyaluronidase upon the distribution of plasma albumin and red blood cells in normal and ischemic myocardium, 444

With the collaboration of Schock, Martin I. Effect of hyaluronidase upon the water content of ischemic myocardium, 106

MARTZ, B. L. (See Fisch, et al.), 212

MASSIE, EDWARD. (See Walsh, et al.), 592 MAXWELL, GEORGE M. (See Rowe, et al.), 777 Medrano, Gustavo A., Sodi-Pallares, De-metrio, de Micheli, Alfredo, Bis-TENI, ABDO, POLANSKY J., BURTON, AND HERTAULT, JEAN. A study of the potentials of the Purkinje tissue, 562

MEEHAN, JOHN P. Central nervous control of the renal circulation, 318 (Annot.) MENDLOWITZ, MILTON. The dreamers and the skeptics, 837 ( Annot.)

DE MICHELI, ALFREDO. (See Medrano, et al.),

MILNOR, WILLIAM R. (See Jose, et al.), 408

Mohler, Emile R., Jr., and Freis, Edward D. Five-year survival of patients with malignant hypertension treated with antihypertensive agents, 329 MONROY, GUILLERMO. (See de la Cruz, et al.),

MORROW, ANDREW G. (See Collins, et al.), 624

PASCALE, LUKE R. (See Schoolman, et al.), 526 PASLEY, FRANCIS C., AND SURAWICZ, BORYS. Untoward effects of rapidly administered intravenous acetylcholine during studies of the circulation time, 440

PATT, HOWARD H. (See Wexler and Patt), 618 PEARL, MAURICE A., AND SIDRANSKY, HERS-CHEL. Candida endocarditis. Two new cases, with a review of twelve cases previously reported, 345
Perkins, Joseph A. Reversion of bundle

branch block with steroid therapy,

134

PERLOFF, JOSEPH K., AND HARVEY, W. PROCTOR. Unusual left atrial enlargement with patent ductus arteriosus,

PHILLIPS, JOHN H. (See Burch and Phillips), 163

—. (See Hibbs, et al.), 121 PIRRIE, R. (See Campbell, et al.), 799

POLANSKY J., BURTON. (See Medrano, et al.),

PRIEBE, FRED H. (See Fisch, et al.), 212 PRIETO, GUSTAVO. (See Reeves, et al.), 745

REEVES, T. JOSEPH, HEFNER, LLOYD L., JONES, WILLIAM B., COGHLAN, CECIL, PRIETO, GUSTAVO, AND CARROLL, PRIETO, GUSTAVO, AND LOUN. The hemodynamic determination of the pressure nants of the rate of change in pressure in the left ventricle during isometric

REGAN, TIMOTHY J. (See Binak, et al.), 495 REILLY, LEO E. (See Rogers, et al.), 281 RICHMAN, SIDNEY M. (See Jonas and Rich-

man), 811

RIFKIND, B. M. (See Campbell, et al.), 799 RIVARA, GEORGE L. (See Freis, et al.), 898 ROBBINS, STANLEY L. (See Rodriguez, et al.),

ROBERG, NORMAN B. (See Harvey, et al.), 823 RODBARD, S. (See Harasawa and Rodbard), 73 RODDIE, IAN C. Vasoconstrictor innervation of human skeletal muscle, 998 (An-

not.)

RODRIGUEZ, FELIX L., ROBBINS, STANLEY L., AND MALLORY, G. KENNETH. The vascularized cardiac thrombus as a possible vicarious source of blood supply in ischemic human hearts, 168

ROGERS, H. MILTON, WILCOX, ABBOTT Y., JR., REILLY, LEO E., AND EDWARDS, JESSE E. Congenital vascular ring: report of a case with survival to 62 years, 281

ROMAN, GONZALO T., JR. (See Walsh, et al.),

ROMERO, ANGEL. (See de la Cruz, et al.), 675 ROSENBERG, BENJAMIN. (See Dressler, et al.),

Rowe, George G., Maxwell, George M., Castillo, Cesar A., Freeman, D. J., and Crumpton, Charles W. Investigation of the mechanism of the hemodynamic effects of ganglionic blockage produced by mecamyla-mine, 777 RUBIN, IRA L. (See Goldman, et al.), 61

SAMET, PHILIP, BERNSTEIN, WILLIAM H., AND WIDRICH, JACK. Intracardiac infusion of acetylcholine in primary pulmo-nary hypertension, 433

SANDLER, HAROLD. (See Dodge, et al.), 94, 762 SCHAFER, H. H., WITHAM, A. C., AND BURNS, J. H. Digitalis tolerance and effect of acetyl-strophanthidin upon serum potassium of dogs with acidosis and

uremia, 388
Scherf, David, Blumenfeld, S., Taner, D.,
and Yildiz, Muhtar. The effect of diphenylhydantoin (Dilantin) sodium on atrial flutter and fibrillation provoked by focal application of aconitine or delphinine, 936

, BORNEMANN, CARL, AND YILDIZ, MUHTAR. A-V nodal parasystole, 179

SCHERLIS, LEONARD. (See Singleton and Scherlis), 879

SCHEUER, JAMES, SELVYN, JAMES, KAHN, MELVIN, BLEIFER, SELVYN, DONOSO, EPHRAIM, AND GRISHMAN, ARTHUR. The atrial vectorcardiogram in health and disease,

. (See Kahn, et al.), 23

SCHLUGER, JOSEPH. (See Edson and Schluger), 641

Schoolman, Harold M., Bernstein, Lionel M., Littman, Armand, and Pascale, LUKE R. Acetylcholine in differential diagnosis and treatment of paroxysmal tachycardia, 526

SCHREINER, BERNARD F. (See Yu, et al.), 503 SCHRODER, JOHN C. (See Colville, et al.), 237 SCOTT, RALPH C. (See Chou, et al.), 371

The electrocardiographic diagnosis of right ventricular hypertrophy: correlation with the anatomic findings, 659 (Annot.)

SELYE, H. (See Bajusz and Selye), 266

Shabetai, Ralph. Cardiac bypass without an artificial lung, 482 (Annot.)

. (See Fowler, et al.), 551

SHAPIRO, WILLIAM, AND SHARPE, ALTON R., IR. Precordial isotope-dilution curves in congenital heart disease: a simple method for the detection of intracardiac shunts, 607

ALTON R., JR. (See Shapiro and Sharpe), 607

SHEN, YEN. (See Benchimol, et al.), 417

SIDRANSKY, HERSCHEL. (See Pearl and Sidransky), 345

SINGEWALD, MARTIN L. Atherosclerosis—what diet? 997 (Annot.)

SINGLETON, ROBERT T., AND SCHERLIS, LEON-ARD. Transseptal catheterization of the left heart: observations in 56

patients, 879 SMIRK, F. H. (See Hodge and Smirk), 539 SODI-PALLARES, DEMETRIO. (See Medrano, et

al.), 562

SOFFER, ALFRED. Electrocardiographic abnormalities in acute, convalescent, and recurrent stages of idiopathic pericarditis, 729

Somlyo, Andrew P. Molar sodium lactate antagonism of myocardial depres-

sants, 484 (Annot.) SPACH, MADISON S. (See Boineau, et al.), 924 SPACH, MADISON S. (See Boilleau, et al.),
SPERANSKY, I., AND BELJAEVA, N. The influence
of hereditary and environmental
factors on the course of hypertensive disease (on the basis of long-term observations of patients), 855

STANFIELD, C. ALPHEUS. (See, Yu, et al.), 503 STEINMETZ, EDWARD F. (See Fisch, et al.), 220 STOECKLE, H. G. E. (See Henry, et al.), 817 SUDAK, FREDERICK N. (See Bernard and Sudak), 88

SURAWICZ, BORYS, (See Paslev and Surawicz), 440

SUTTON, DON C. , AND SUTTON, GEORGE C. Needle biopsy of the human ventricular myocardium: review of 54 consecutive cases, 364

SUTTON, GEORGE C. (See Sutton and Sutton), 364

T

TANER, D. (See Scherf, et al.), 936

VANDER VEER, JOSEPH B. (See Dinon and Vander Veer), 6

W

WACHTEL, FRED. (See Kahn, et al.), 23 WAGNER, E. L. (See Livesay, et al.), 955 WALASZEK, E. J. (See Huggins and Walaszek), 976

Walsh, Thomas J., Roman, Gonzalo T., Jr., AND MASSIE, EDWARD. The vector-cardiographic QRSsÊ-loop findings in chronic cor pulmonale, 592

WARREN, J. V. (See Gunnells, et al.), 231 WAXMAN, DAVID. (See Benchimol, et al.), 417 WEINBERG, SYLVAN LEE. The electrocardio-

gram in acute arsenic poisoning, 971 Wexler, Jack, and Patt, Howard H. Evidence that serum potassium is not the etiological agent in ventricular fibrillation following coronary artery

occlusion, 618
Whelan, Robert F. The role of histamine, 996 (Annot.)

WIDRICH, JACK. (See Samet, et al.), 433

WILCOX, ABI 281 ABBOTT Y., JR. (See Rogers, et al.),

WILLARD, PAUL W., AND HORVATH, STEVEN M. Blood gas and plasma ion concentrations of asphyxiated hypothermic and normothermic rats, 244

WILLIAMS, JAMES R. (See Jones, et al.), 464 WINSOR, TRAVIS. Potassium and digitalis WINSOR, intoxication, 151 (Annot.)

WISHEART, JAMES D. Patterns of reactive hyperemia in the hand, 116

WITHAM, A. C. (See Schafer, et al.), 388
WRIGHT, R. DOUGLAS. Electrocardiography,
154

YILDIZ, MUHTAR. (See Scherf, et al.), 179, 936 YU, PAUL N., FINLAYSON, JAMES K., LURIA, MILTON N., STANFIELD C. ALPHEUS, SCHREINER, BERNARD F., AND LOVE-JOY, FRANK W., JR. Indicator-dilution curves in valvular heart disease: after injections of indicators into pulmonary artery and left ventricle, 503

ZBINDEN, GERHARD. Inhibition of experimental myocardial necrosis by the monoamine oxidase inhibitor isocarboxazid (Marplan), 450

ZIMMERMAN, HENRY A. (See Imperial, et al.), 705

# Subject Index\*

A

Acetylcholine, data on treatment of tachycardia with (Table I) (Schoolman, et al.), 528

in differential diagnosis and treatment of paroxysmal tachycardia (Schoolman,

et al.), 526

intracardiac infusion of, in primary pulmonary hypertension (Samet, et al.), 433 intravenous, rapidly administered, untoward effects of, during studies of circulation

time (Pasley and Surawicz), 440
Acetyl-strophanthidin, digitalis tolerance and
effect of, upon serum potassium of
dogs with acidosis and uremia (Scha-

fer, et al.), 388
transient effect of potassium on A-V conduction and ventricular tachycardia produced by: demonstration of supernormal conduction (Fisch, et al.), 212
Acid mucopolysaccharides (Fantl), 665 (An-

not.)

Acidosis and uremia, digitalis tolerance and effect of acetyl-strophanthidin upon serum potassium of dogs with (Schafer, et al.), 388

Acknowledgement to reviewers, 845

Aconitine or delphinine, effect of diphenylhydantoin (Dilantin) sodium on atrial flutter and fibrillation provoked by focal application of (Scherf, et al.), 936

Adams-Stokes syndrome, multifocal ventricular extrasystoles with, in siblings

(Berg), 965

Air embolism, venous, complicating angiocardiography: illustrative case report (Dotter), 454

pressure, ventilatory, and pulmonary vascular resistance (Harasawa and Rod-

bard), 73

Albumin, plasma, and red blood cells, effects of hyaluronidase upon distribution of, in normal and ischemic myocardium (Martins de Oliveira and Levy), 444

17-Alpha-ethyl-19-nortestosterone (Nilevar); studies on influence of anabolic steroids on experimental atheroma (Campbell, et al.), 799

Anabolic steroids, studies on influence of, on experimental atheroma: 17-alphaethyl-19-nortestosterone (Nilevar),

(Campbell, et al.), 799
Anatomic findings, correlation with; electrocardiographic diagnosis of right ventricular hypertrophy (Scott), 659
(Annot.)

Anemia, hypovolemic, experimental, some circulatory effects of (Fowler, et al.), 551

Angiocardiography, biplane, use of, for measurement of left ventricular volume in man (Dodge, et al.), 762

left ventricular, selective, evaluation of degree of mitral insufficiency by (Björk, et al.), 691

venous air embolism complicating: illustrative case report (Dotter), 454

Angles, vector, frontal plane, simple improved triangular reference frame for determination of, from limb lead data (Jordan and Beswick), 80

Annotations, 149, 318, 482, 658, 836, 996 Announcements, 162, 325, 490, 668, 844, 1002 Anoxia, cerebral (Lucas), 838 (Annot.)

Anticoagulant therapy, recurrent myocardial infarction after cessation of (Dinon and Vander Veer), 6

Antihypertensive agents, five-year survival of patients with malignant hypertension treated with (Mohler and Freis), 329

Antithrombotic therapy, 160 (B. Rev.)

Aortic, mitral and, valves with vestigial left
ventricle (three cases), congenital
atresia of (Lumb and Dawkins), 378

valvular disease, value of injections of dye into left heart in study of, by catheterization of left heart (Jose, et al.), 408

stenosis, aid to identification of murmur of, with atypical localization (Henke, et al.), 354

surgical treatment of (Kay), 320 (Annot.) valve, tetralogy of Fallot with rheumatic stenosis of (Collins, et al.), 624

Arsenic poisoning, acute, electrocardiogram in (Weinberg), 971

Arterial bed, coronary, response of, to electroshock: experimental study in dogs (Colville, et al.), 237

disease, occlusive, pathogenesis and treatment of, 843 (B. Rev.)

Arteriosclerosis, hypertension and (Burch and Phillips), 163

Arteriosus, ductus, involution of, morphological and experimental study, with critical review of literature, 157 (B. Rev.)

patent ductus, unusual left atrial enlargement with (Perloff and Harvey), 804

Arteriovenous fistula: hemodynamic effects of occlusion and exercise (Binak, et al.), 495

Artery, pulmonary, and left ventricle, after injection of indicators into; indicator-dilution curves in valvular heart disease (Yu, et al.), 503

Artificial lung, cardiac bypass without (Shabetai), 482 (Annot.)

<sup>\*</sup>July, pp. 1-162; August, 163-326; September, 327-490; October, 491-668; November, 669-844; December, 845-1022.

Ascites, myxedema: report of two cases (Levine and Levine), 456

Asphyxiated hypothermic and normothermic rats, blood gas and plasma ion concentrations of (Willard and Horvath), 244

Ataxia, Friedreich's: neurocardiac (Hartman and Booth), 716 disease

Atherogenesis, mechanisms of lipid accumulation in (Courtice), 664 (Annot.)
Atheroma, experimental, studies on influence of anabolic steroids on: 17-alphaethyl-19-nortestosterone (Nilevar) (Campbell, et al.), 799

Atherosclerosis—what diet? (Singewald), 997 (Annot.)

Atresia, congenital, of mitral and aortic valves with vestigial left ventricle (three cases) (Lumb and Dawkins), 378

Atrial enlargement, evaluation of ratio of Pwave duration to P-R segment in diagnosis of (Kahn, et al.), 23

left, unusual, with patent ductus arteriosus (Perloff and Harvey), 804

flutter and fibrillation provoked by focal application of aconitine or delphinine, effect of diphenylhydantoin (Dilantin) sodium on (Scherf, et al.), 936

septal defects, repair of (Cohen), 1001 (Annot.

vectorcardiogram in health and disease (Scheuer, et al.), 33

Atrium, left, epicardial low-frequency tracings of. Comparison with preoperative esophageal pulse in mitral defects (Angelino, et al.), 188

supravalvular stenosing ring of (Manubens, et al.), 286

Auscultation, cardiac, 490 (B. Rev.)

Autoantibodies, role of, in heart disease (Davies and Gery), 669

A-V communis defect, ventricular septal defect and, under circulatory bypass and hypothermia. Auriculotomy only (Table I) (Baer and Blount), 872

conduction and ventricular ectopic beats, transient effect of intravenous po-tassium on: clinical study (Fisch, et al.), 220

tachycardia produced by acetyl-stro-phanthidin, transient effect of po-tassium on: demonstration of supernormal conduction (Fisch, et al.), 212

dissociation, double nodal rhythm with (Jonas and Richman), 811 nodal parasystole (Scherf, et al.), 179

Bacteremia following sigmoidoscopy (Buchman and Berglund), 863

Beats, ectopic, ventricular, transient effect of intravenous potassium on A-V conduction and: clinical study (Fisch, et al.), 220

Benzothiadiazine derivatives, review of, in relation to cardiovascular disease (Edson and Schluger), 641 Biochemical genetics, human, 159 (B. Rev.)

Biopsy, needle, of human ventricular myocardium: review of 54 consecutive cases (Sutton and Sutton), 364

Biplane angiocardiography, use of, for measurement of left ventricular volume in man (Dodge, et al.), 762

Block, bundle branch, left, complete, electrocardiographic diagnosis of myocardial infarction in cases of (Besoain-Santander and Gómez-Ebensperguer),

> reversion of, with steroid therapy (Perkins), 134

Blockade, ganglionic, produced by mecamylamine, investigation of mechanism of hemodynamic effects of (Rowe, et al.), 777

Blood cells, red, effects of hyaluronidase upon distribution of plasma albumin and, in normal and ischemic myocardium (Martins de Oliveira and Levy), 444

flow in human calf after prolonged walking (Halliday), 110

gas and plasma ion concentrations of asphyxiated hypothermic and normothermic rats (Willard and Horvath), 244

supply, vascularized cardiac thrombus as possible vicarious source of, in ischemic human hearts (Rodriguez, et al.), 168

vessels, human, local effect of carbon dioxide on (Diji and Greenfield), 907

Blutkreislaufs, nervale und hormonale regulation des, 842 (B. Rev.)

Body water and ions, basic facts of, 668 (B. Rev.)

Book reviews, 157, 325, 490, 668, 842

Bradykinin (Huggins and Walaszek), 977

Bretylium tosylate (Darenthin), hypotensive action of (Hodge and Smirk), 539

Bundle branch block, incomplete and complete, Purkinje potentials in (Medrano, et al.), 574

left, complete, electrocardiographic diagnosis of myocardial infarction in cases of (Besoain-Santander and Gómez-Ebensperguer), 886

reversion of, with steroid therapy (Perkins), 134

Bypass, cardiopulmonary, miscellaneous oper-ations without (Table IV) (Baer and Blount), 875

circulatory, and hypothermia, ventricular septal defect and A-V communis defect under. Auriculotomy only (Table

I) (Baer and Blount), 872 tetralogy of Fallot under (Table III) (Baer and Blount), 874

Calf, human, blood flow in, after prolonged walking (Halliday), 110

Cancellation, electrocardiographic: mathematical basis (Helm), 251 minimum range (Helm), 253

root mean square (Helm), 252

Candida endocarditis. Two new cases, with review of twelve cases previously reported (Pearl and Sidransky), 345

Canine heart, study of premature systoles of, by means of spatial vectorcardiogram (Boineau, et al.), 924

Capillary wall, symposium on factors influencing exchange of substances across. Microcirculation, 158 (B. Rev.)

Carbon dioxide, local effect of, on human blood vessels (Diji and Greenfield), 907 Cardiac auscultation, 490 (B. Rev.)

bypass without artificial lung (Shabetai), 482 (Annot.)

catheterization, signs and symptoms, course and results of operation in 75 cases diagnosed at; isolated pulmonary stenosis, 159 (B. Rev.)

failure, anoxic, acute, in pulmonary heart disease (Kellaway), 487 (Annot.) glycogenosis (McPhie), 836 (Annot.)

myxoma, evidence in support of neoplastic nature of (Fisher and Hellstrom), 630

thrombus, vascularized, as possible vicarious source of blood supply in ischemic human hearts (Rodriguez, et al.), 168 Cardiogenesis, causalities in (Duffey), 851 initial events in (Duffey), 848

model of (Duffey), 849 Cardiomyopathy of unknown origin, functional subaortic stenosis due to (Livesay, et al.), 955

Cardiopathies, necrotizing, diverse, influence of variations in dietary intake of chlorides upon (Bajusz and Selye),

Cardiopulmonary bypass, miscellaneous oper-ations without (Table IV) (Baer and Blount), 875

Cardiovascular disease, review of benzothi-adiazine derivatives in relation to (Edson and Schluger), 641

effects of isoproterenol in normal subjects and subjects with congestive heart failure (Dodge, et al.) 94

response to intravenous epinephrine, effect of alterations in arousal of central nervous system upon (Gunnells, et al.), 231

Catheterization, cardiac, signs and symptoms, course and results of operation in 75 cases diagnosed at; isolated pulmonary stenosis, 159 (B. Rev.)

of left heart, value of injections of dye into left heart in study of mitral and aortic valvular disease by (Jose, et al.), 408

transseptal, of left heart; observations in 56 patients (Singleton and Scherlis), 879 Cell, mast, human, electron-microscopic ob-

servations on (Hibbs, et al.), 121 Cells, blood, red, effects of hyaluronidase upon distribution of plasma albumin and, in normal and ischemic myocardium (Martins de Oliveira and Levy), 444

Cerebral anoxia (Lucas), 838 (Annot.) Children, normal, qualitative and quantitative study of ventricles and great vessels of (de la Cruz, et al.), 675 Chlorides, influence of variations in dietary intake of, upon diverse necrotizing cardiopathies (Bajusz and Selye), 266 Cholesterol, serum, use of Triparanol to lower

(Goyette and Elder), 536

Cholinergic vasodilator nerves to human skeletal muscle (Glover) 321 (Annot.) to human Circle of Willis. Functional concepts, old and

new (Hale), 491

Circulation, renal, central nervous control of (Meehan), 318 (Annot.)

time, untoward effects of rapidly administered intravenous acetylcholine dur-ing studies of (Pasley and Surawicz), 440

Circulatory bypass and hypothermia, ventricular septal defect and A-V communis defect under. Auriculotomy only (Table I) (Baer and Blount), 872 tetralogy of Fallot under (Table III)

(Baer and Blount), 874

Cirrhosis, portal, of liver, low incidence of myocardial infarction in patients with: review of 639 cases of cirrhosis of liver from 17,731 autopsies (Howell and Manion), 341

Clinical-pathologic conference (Arnott, et al.), 139

(Harvey, et al.), 823 (Jones, et al.), 464

Colostrokinin (Huggins and Walaszek), 989

Conduction, A-V, and ventricular ectopic beats, transient effect of intravenous potassium on: clinical study (Fisch, et al.), 220

tachycardia produced by acetyl-strophanthidin, transient effect of po-tassium on: demonstration of supernormal conduction (Fisch, et al.), 212

supernormal, demonstration of; transient effect of potassium on A-V conduction and ventricular tachycardia produced by acetyl-strophanthidin (Fisch, et al.), 212

Congestive heart failure, cardiovascular effects of isoproterenol in normal subjects and subjects with (Dodge, et al.), 94

Connective tissue, heritable disorders of, 157 (B. Rev.)

Contraction, isometric, hemodynamic determinants of rate of change in pressure in left ventricle during (Reeves, et al.), 745

Cor pulmonale, chronic, vectorcardiographic QRSsE-loop findings in (Walsh, et al.), 592

Coronary arterial bed, response of, to electroshock: experimental study in dogs (Colville, et al.), 237

artery occlusion, evidence that serum potassium is not etiological agent in ventricular fibrillation following (Wexler and Patt), 618

episodes, mild or silent, pericarditis follow-ing: attempt at narrowing field of idiopathic pericarditis (Dressler, et al.), 721

Curves, indicator-dilution, in valvular heart disease: after injection of indicators into pulmonary artery and left ventricle (Yu, et al.), 503

Delphinine, effect of diphenylhydantoin (Dilantin) sodium on atrial flutter and fibrillation provoked by focal application of aconitine or (Scherf, et al.),

Depressants, myocardial, molar sodium lactate antagonism of (Somlyo), 484 (Annot.

Depressor polypeptides (Huggins and Wafaszek), 976

Diastolic movements of precordium in mitral stenosis and regurgitation (Benchimol, et al.), 417

Dietary intake of chlorides, influence of variations in, upon diverse necrotizing cardiopathies (Bajusz and Selye), 266

veins, effect of norepinephrine on Digital (Burch and DePasquale), 915

Digitalis, potassium and, intoxication (Winsor), 151 (Annot.)

tolerance and effect of acetyl-strophanthidin upon serum potassium of dogs with acidosis and uremia (Schafer, et al.), 388

Diphenylhydantoin (Dilantin) sodium, effect of, on atrial flutter and fibrillation provoked by focal application of aconitine or delphinine (Scherf, et al.), 936

Dissociation, A-V, double nodal rhythm with

(Jonas and Richman), 811 "Doctor's dilemma" (Mendlowitz), 153 (Annot.)

Dreamers and skeptics (Mendlowitz), 837 (Annot.)

Drug dosage, problem of (DeGraff), 327

Drugs of choice, 1960-1961, 158 (B. Rev.)
Ductus arteriosus, involution of. Morphological and experimental study, with critical review of literature, 157 (B. Rev.

Dye, value of injections of, into left heart in study of mitral and aortic valvular disease by catheterization of left heart (Jose, et al.), 408

Dye-dilution method, estimation of residual and end-diastolic volumes of right ventricle of men without heart disease, using (Freis, et al.), 898

ECG, uremia, and levels of serum potassium (Katz), 320 (Annot.)

Editorials. Circle of Willis. Functional con-cepts, old and new (Hale), 491 Hypertension and arteriosclerosis (Burch

and Phillips), 163 Initial events in cardiogenesis (Duffey), 848 Peripheral vascular resistance (Haddy), 1 Problem of drug dosage (DeGraff), 327

Editorials—Cont'd Role of autoantibodies in heart disease (Davies and Gery), 669 EKG—Fibel, 842 (B. Rev.) pädiatrischer, Atlas, 325 (B. Rev.)

Electrocardiogram in acute arsenic poisoning (Weinberg), 971

normal, in convalescent period: electrocardiographic abnormalities of idiopathic pericarditis (Soffer), 732

spatial vectorcardiogram, and ventricular gradient in congenital ventricular septal defect (Burch and DePasquale), 195

Electrocardiographic abnormalities in acute, convalescent, and recurrent stages of idiopathic pericarditis (Soffer), 729

persistent: electrocardiographic abnormalities of idiopathic pericarditis (Soffer),

analysis of pure mitral valvular disease: study based on fifty-seven cases with open-heart operation (Imperial, et al.), 705

cancellation: mathematical basis (Helm), 251

changes (II); experimental trichinosis in golden hamster (Bernard and Sudak),

criteria, current, specificity of, in diagnosis of left ventricular hypertrophy (Chou, et al.), 371

diagnosis of myocardial infarction in cases of complete left bundle branch block (Besoain-Santander and Gómez-Ebensperguer), 886

of right ventricular hypertrophy: correlation with anatomic findings (Scott), 659 (Annot.)

Electrocardiography (Wrig primer of, 843 (B. Rev.) (Wright), 154 (Annot.)

some reflections on zero potential in (Brody and Evans), 661 (Annot.)

Electrogenesis (Cabrera and Gaxiola), 296 Electronics, medical, 161 (B. Rev.) Electron-microscopic observations on human

mast cell (Hibbs, et al.), 121 Electroshock, response of coronary arterial bed to: experimental study in dogs (Colville, et al.), 237

Embolism, air, venous, complicating angiocardiography: illustrative case report (Dotter), 454

Endocarditis, candida. Two new cases, with review of twelve cases previously reported (Pearl and Sidransky), 345

Enlargement, atrial, evaluation of ratio of P-wave duration to P-R segment in diagnosis of (Kahn, et al.), 23

Environmental, hereditary and, factors, in-fluence of, on course of hypertensive disease (on basis of long-term observations of patients) (Speransky and Beljaeva), 855

Epicardial low-frequency tracings of left atrium. Comparison with preoperative esophageal pulse in mitral defects (Angelino, et al.), 188

Epinephrine, intravenous, effect of alterations in arousal of central nervous system upon cardiovascular response to (Gunnells, et al.), 231

Esophageal pulse, preoperative, in mitral defects, comparison with; epicardial low-frequency tracings of left atrium (Angelino, et al.), 188

Exercise, hemodynamic effects of occlusion and; arteriovenous fistula (Binak, et al.), 495

Extrasystoles, ventricular, multifocal, with Adams-Stokes syndrome in siblings (Berg), 965

## F

Fallot, tetralogy of, with rheumatic stenosis of aortic valve (Collins, et al.), 624

Fibrillation, effect of diphenylhydantoin (Dilantin) sodium on atrial flutter and, provoked by focal application of aconitine or delphinine (Scherf, et al.), 936

ventricular, evidence that serum potassium is not etiological agent in, following coronary artery occlusion (Wexler

and Patt), 618

Fibrosis, septal, study at autopsy of relation of absence of Q wave in Lead I, aV<sub>L</sub>, V<sub>5</sub>, and V<sub>6</sub> to (Burch and DePasquale), 336

Fistula, arteriovenous: hemodynamic effects of occlusion and exercise (Binak, et

al.), 495

Flutter, atrial, and fibrillation provoked by focal application of aconitine or delphinine, effect of diphenylhydantoin (Dilantin) sodium on (Scherf, et al.), 936

Frequency spectra, physical meaning of (Brody, et al.), 586

Friedreich's ataxia: neurocardiac disease (Hartman and Booth), 716

Frontal plane vector angles, simple improved triangular reference frame for determination of, from limb lead data (Jordan and Beswick), 80

## G

Ganglionic blockade produced by mecamylamine, investigation of mechanism of hemodynamic effects of (Rowe, et al.), 777

Gas, blood, and plasma ion concentrations of asphyxiated hypothermic and normothermic rats (Willard and Horvath), 244

Genetics, biochemical, human, 159 (B. Rev.) Gitalin studies (Fleisher and Linde), 520

Glycogenosis, cardiac (McPhie), 836 (Annot.) Gradient, ventricular, electrocardiogram, spatial vectorcardiogram, and, in congenital ventricular septal defect (Burch and DePasquale), 195

Great vessels, qualitative and quantitative study of ventricles and, of normal children (de la Cruz, et al.), 675 H

Hamster, golden, experimental trichinosis in. II. Electrocardiographic changes (Bernard and Sudak), 88

Hand, patterns of reactive hyperemia in (Wisheart), 116

Heart, canine, study of premature systoles of, by means of spatial vectorcardiogram (Boineau, et al.), 924

diagnostic contribution of vectorcardiogram in hemodynamic overloading of (Cabrera and Gaxiola), 296

disease, congenital, precordial isotope-dilution curve in: simple method for detection of intracardiac shunts (Shapiro and Sharpe), 607

iro and Sharpe), 607
estimation of residual and end-diastolic
volumes of right ventricle of men
without, using dye-dilution method
(Freis, et al.), 898

pulmonary, acute anoxic cardiac failure in (Kellaway), 487 (Annot.)

role of autoantibodies in (Davies and

Gery), 669
valvular, indicator-dilution curves in:
after injection of indicators into pulmonary artery and left ventricle
(Yu, et al.), 503

failure, congestive, cardiovascular effects of isoproterenol in normal subjects and subjects with (Dodge, et al.), 94 left, transseptal catheterization of; observa-

left, transseptal catheterization of; observations in 56 patients (Singleton and Scherlis), 879

value of injections of dye into, in study of mitral and aortic valvular disease by catheterization of left heart (Jose, et al.), 408

size, effect of, on oxygen uptake of myocardium (Badeer), 948

work, and, 161 (B. Rev.)

your: handbook for laymen, 157 (B. Rev.)

Hearts, human, ischemic, vascularized cardiac thrombus as possible vicarious source of blood supply in (Rodriguez, et al.), 168

Hemodynamic determinants of rate of change in pressure in left ventricle during isometric contraction (Reeves, et al.), 745

effects of ganglionic blockade produced by mecamylamine, investigation of mechanism of (Rowe, et al.), 777

overloading of heart, diagnostic contribution of vectorcardiogram in (Cabrera and Gaxiola), 296

Hereditary and environmental factors, influence of, on course of hypertensive disease (on basis of long-term observations of patients) (Speransky and Beljaeva), 855

Histamine liberators, myocardial infarct-like lesions produced by, in rats. Preliminary report (Franco-Browder, et al.), 545

role of (Whelan), 996 (Annot.)

Human calf, blood flow in, after prolonged walking (Halliday), 110

hearts, ischemic, vascularized cardiac thrombus as possible vicarious source of blood supply in (Rodriguez, et al.), 168

mast cell, electron-microscopic observations on (Hibbs, et al.), 121

Hyaluronidase, effect of, upon water content of ischemic myocardium (Martins de Oliveira and Levy), 106

effects of, upon distribution of plasma albumin and red blood cells in normal and ischemic myocardium (Martins de Oliveira and Levy), 444

Hyperemia, reactive, patterns of, in hand (Wisheart), 116

Hypertension and arteriosclerosis (Burch and Phillips), 163

malignant, treated with antihypertensive agents, five-year survival of patients with (Mohler and Freis), 329

pulmonary, primary, intracardiac infusion of acetylcholine in (Samet, et al.), 433

Hypertensive disease, influence of hereditary and environmental factors on course of (on basis of long-term observations of patients) (Speransky and Beljaeva), 855

Hypertrophy, ventricular, left, specificity of current electrocardiographic criteria in diagnosis of (Chou, et al.). 371

in diagnosis of (Chou, et al.), 371 right, electrocardiographic diagnosis of: correlation with anatomic findings (Scott), 659 (Annot.)

Hypotensive action of bretylium tosylate (Darenthin) (Hodge and Smirk), 539

Hypothermia, ventricular septal defect and A-V communis defect under circulatory bypass and. Auriculotomy only (Table I) (Baer and Blount), 872

Hypothermic, asphyxiated, and normothermic rats, blood gas and plasma ion concentrations of (Willard and Horvath), 244

Hypovolemic anemia, experimental, some circulatory effects of (Fowler, et al.), 551

## ]

Idiopathic pericarditis, attempt at narrowing field of (Dressler, et al.), 721

electrocardiographic abnormalities in acute, convalescent, and recurrent stages of (Soffer), 729

Indicator dilution, assessment of mitral regurgitation by: modification of variance method of Korner and Shillingford (Carleton, et al.), 396

Indicator-dilution curves in valvular heart disease: after injection of indicators into pulmonary artery and left ventricle (Yu, et al.), 503

Infant, 4-month-old, periarteritis in, unresponsive to penicillinase (Henry, et al.), 817 Infarction, myocardial, electrocardiographic diagnosis of, in cases of complete left bundle branch block (Besoain-Santander and Gómez-Ebensperguer), 886

low incidence of, in patients with portal cirrhosis of liver: review of 639 cases of cirrhosis of liver from 17,731 autopsies (Howell and Manion), 341

topsies (Howell and Manion), 341
recurrent, after cessation of anticoagulant
therapy (Dinon and Vander Veer), 6
subendocardial (Edson), 323 (Annot.)
transitory Q waves simulating Q wave of
(Goldman, et al.), 61

Infusion, intracardiac, of acetylcholine in primary pulmonary hypertension (Samet, et al.), 433

Inhibitor, monoamine oxidase, isocarboxazid (Marplan) inhibition of experimental myocardial necrosis by (Zbinden), 450

Innervation, vasoconstrictor, of human skeletal muscle (Roddie), 998 (Annot.)

Insufficiency, mitral, evaluation of degree of, by selective left ventricular angiocardiography (Björk, et al.), 691

cardiography (Björk, et al.), 691 Interventricular septal defects, phonocardiography in (Craige), 51

Intoxication, potassium and digitalis (Winsor), 151 (Annot.)

quinidine: experimental study of effect of molar sodium lactate and potassium chloride (Lee), 785

Intracardiac infusion of acetylcholine in primary pulmonary hypertension (Samet, et al.), 433

shunts, simple method for detection of; precordial isotope-dilution curves in congenital heart disease (Shapiro and Sharpe), 607

Intravenous acetylcholine, rapidly administered, untoward effects of, during studies of circulation time (Pasley and Surawicz), 440

Ischemic human hearts, vascularized cardiac thrombus as possible vicarious source of blood supply in (Rodriguez, et al.), 168

myocardium, effect of hyaluronidase upon water content of (Martins de Oliveira and Levy), 106

normal and, effects of hyaluronidase upon distribution of plasma albumin and red blood cells in (Martins de Oliveira and Levy), 444

Isocarboxazid (Marplan), inhibition of experimental, myocardial necrosis by monoamine oxidase inhibitor (Zbinden), 450

Isometric contraction, hemodynamic determinants of rate of change in pressure in left ventricle during (Reeves, et al.), 745

Isoproterenol, cardiovascular effects of, in normal subjects and subjects with congestive heart failure (Dodge, et al.), 94 Isotope-dilution curves, precordial, in congenital heart disease: simple method for detection of intracardiac shunts (Shapiro and Sharpe), 607

Kallikrein (padutin), kallidin (Huggins and Walaszek), 985

Kinin, wasp (Huggins and Walaszek), 989 Kinins, plasma (Huggins and Walaszek), 986 urinary (Huggins and Walaszek), 988

Korner and Shillingford, modification of variance method of; assessment of mitral regurgitation by indicator dilution (Carleton, et al.), 396

Lactate, molar sodium, antagonism of myo-cardial depressants (Somlyo), 484 (Annot.)

Lead, limb, data, simple improved triangular reference frame for determination of frontal plane vector angles from (Jordan and Beswick), 80

tensor: its nature and prospective applica-

tions (Brody, et al.), 840 (Annot.) Leads I, aV<sub>L</sub>, V<sub>5</sub>, and V<sub>6</sub>, study at autopsy of relation of absence of Q wave in, to septal fibrosis (Burch and DePasquale), 336

Lesion, myxomatous, special study of (Fisher and Hellstrom), 635

Lesions, myocardial infarct-like, produced by histamine liberators in rats. Preliminary report (Franco-Browder, et al.), 545

Letter to editor, 667

Liberators, histamine, myocardial infarct-like lesions produced by, in rats. Pre-liminary report (Franco-Browder, et al.), 545

Limb lead data, simple improved triangular reference frame for determination of frontal plane vector angles from (Jordan and Beswick), 80

Lipid accumulation, mechanisms of, in atherogenesis (Courtice), 664 (Annot.)

Liver, low incidence of myocardial infarction in patients with portal cirrhosis of: review of 639 cases of cirrhosis of liver from 17,731 autopsies (Howell and Manion), 341

Lung, artificial, cardiac bypass without (Shabetai), 482 (Annot.)

Malignant hypertension treated with antihypertension treated with anti-hypertensive agents, five-year sur-vival of patients with (Mohler and Freis), 329

Man, young, mega-aorta in (Cullhed, et al.), 128

Mecamylamine, investigation of mechanism of hemodynamic effects of ganglionic blockade produced by (Rowe, et al.), Medical electronics, 161 (B. Rev.) references, current, 159 (B. Rev.) syndromes and emergencies, acute, 161

(B. Rev.)

Mega-aorta in young man (Cullhed, et al.), 128

Microcirculation. Symposium on factors influencing exchange of substances across capillary wall, 158 (B. Rev.) substances

Mitral and aortic valves with vestigial left ventricle (three cases), congenital atresia of (Lumb and Dawkins), 378 valvular disease, value of injections of dye into left heart in study of, by

catheterization of left heart (Jose,

et al.), 408

defects, comparison with preoperative esophageal pulse in; epicardial low-frequency tracings of left atrium (Angelino, et al.), 188

insufficiency, evaluation of degree of (Björk, et al.), 696

by selective left ventricular angiocardiography (Björk, et al.), 691

regurgitation, assessment of, by indicator dilution: modification of variance method of Korner and Shillingford

(Carleton, et al.), 396 stenosis and regurgitation, diastolic movements of precordium in (Benchimol, et al.), 417

role of myocardial dysfunction in, (Eich), 150 (Annot.)

valvular disease, pure, electrocardiographic analysis of: study based on fiftyseven cases with open-heart operation (Imperial, et al.), 705

valvulotomy, recurrence of symptoms follow-ing (Gilbert), 658 (Annot.) Molar sodium lactate and potassium chloride, experimental study of effect quinidine intoxication (Lee), 785 antagonism of myocardial depressants

(Somlyo), 484 (Annot.)

Monoamine oxidase inhibitor isocarboxazid (Marplan), inhibition of experimental myocardial necrosis by (Zbinden), 450

Mucopolysaccharides, acid (Fantl), 665 (Annot.)

Murmur of aortic stenosis with atypical localization, aid to identification of (Henke. et al.), 354

Murmurs, systolic (Harris), 483 (Annot.) Muscle, skeletal, human, cholinergic vaso-dilator nerves to (Glover), 321 (An-

not.) vasoconstrictor innervation of (Roddie), 998 (Annot.)

Myocardial depressants, molar sodium lactate antagonism of (Somlyo), 484 (Annot.)

dysfunction, role of, in mitral stenosis (Eich), 150 (Annot.)

infarction, electrocardiographic diagnosis of, in cases of complete left bundle branch block (Besoain-Santander and Gómez-Ebensperguer), 886

Myocardial infarction-Cont'd

low incidence of, in patients with portal cirrhosis of liver: review of 639 cases of cirrhosis of liver from 17,731 autopsies (Howell and Manion), 341

recurrent, after cessation of anticoagulant therapy (Dinon and Vander Veer), 6 subendocardial (Edson), 323 (Annot.) transitory Q waves simulating Q wave of (Goldman, et al.), 61

infarct-like lesions produced by histamine liberators in rats. Preliminary report

(Franco-Browder, et al.), 545 necrosis, experimental, inhibition of, by monoamine oxidase inhibitor isocarboxazid (Marplan) (Zbinden), 450 Myocardium, effect of heart size on oxygen

uptake of (Badeer), 948

ischemic, effect of hyaluronidase upon water content of (Martins de Oliveira and Levy), 106

normal and ischemic, effects of hyaluronidase upon distribution of plasma albumin and red blood cells in (Martins de Oliveira and Levy), 444

ventricular, human, needle biopsy of: review of 54 consecutive cases (Sutton and Sutton), 364

Myxedema ascites: report of two cases (Levine

and Levine), 456
Myxoma, cardiac, evidence in support of neoplastic nature of (Fisher and Hellstrom), 630

Myxomatous lesion, special study of (Fisher and Hellstrom), 635

Necrosis, myocardial, experimental, inhibition of, by monoamine oxidase inhibitor isocarboxazid (Marplan) (Zbinden),

Necrotizing cardiopathies, diverse, influence of variations in dietary intake of chlorides upon (Bajusz and Selye),

Needle biopsy of human ventricular myocardium: review of 54 consecutive cases (Sutton and Sutton), 364

Neoplastic nature of cardiac myxoma, evidence in support of (Fisher and Hellstrom), 630

Nervale und hormonale Regulation des Blut-kreislaufs, 842 (B. Rev.)

Nerves, vasodilator, cholinergic, to human skeletal muscle (Glover), 321 (Annot.)

Nervous control, central, of renal circulation (Meehan) 318 (Annot.) system, central, effect of alterations in

arousal of, upon cardiovascular response to intravenous epinephrine (Gunnells, et al.), 231

Neurocardiac disease; Friedreich's ataxia (Hartman and Booth), 716 Nodal parasystole, A-V (Scherf, et al.), 179 rhythm, double, with A-V dissociation (Jonas and Richman), 811

Norepinephrine, effect of, on digital veins (Burch and DePasquale), 915

Normothermic, asphyxiated hypothermic and, rats, blood gas and plasma ion concentrations of (Willard and Horvath),

Occlusion and exercise, hemodynamic effects of; arteriovenous fistula (Binak, et

al.), 495

coronary artery, evidence that serum po-tassium is not etiological agent in ventricular fibrillation following (Wexler and Patt), 618

Open-heart operation, response of serum glutamic oxalacetic transaminase to (Baer and Blount), 867

study based on fifty-seven cases with: electrocardiographic analysis of pure mitral valvular disease (Imperial, et al.), 705

Operation, open-heart, response of serum glutamic oxalacetic transaminase to (Baer and Blount), 867

study based on fifty-seven cases with; electrocardiographic analysis of pure mitral valvular disease (Imperial, et al.), 705

Oscillations, simple, frequency spectra of (Brody, et al.), 582

Oscillographic and spectrographic phonocardiograms, some fundamental relationships between (Brody, et al.), 581

Overloading, hemodynamic, of heart, diag-nostic contribution of vectorcardiogram in (Cabrera and Gaxiola), 296

Oxalacetic transaminase, serum glutamic, response of, to open-heart operation (Baer and Blount), 867

Oxygen uptake of myocardium, effect of heart size on (Badeer), 948

P. substance (Huggins and Walaszek), 990 P wave, division of, by Sondergaard suture (Hamer), 739

P-wave duration, evaluation of ratio of, to P-R segment in diagnosis of atrial enlargement (Kahn, et al.), 23

Pädiatrischer EKG Atlas, 325 (B. Rev.)

Parasystole, nodal, A-V (Scherf, et al.), 179 Paroxysmal tachycardia, acetylcholine in differential diagnosis and treatment of (Schoolman, et al.), 526

Patent ductus arteriosus, unusual left atrial enlargement with (Perloff and Har-

vey), 804

Penicillinase, periarteritis in 4-month-old infant unresponsive to (Henry, et al.), 817

Periarteritis in 4-month-old infant unresponsive to penicillinase (Henry, et al.), 817

Pericarditis following mild or silent coronary episodes: attempt at narrowing field of idiopathic pericarditis (Dressler, et al.), 721

Pericarditis-Cont'd

idiopathic, attempt at narrowing field of; pericarditis following mild or silent coronary episodes (Dressler, et al.),

electrocardiographic abnormalities in acute, convalescent, and recurrent stages of (Soffer), 729

nonspecific, acute, (idiopathic pericarditis, "virus" pericarditis, acute benion "virus" pericarditis, acute benign pericarditis) (McGuire), 485 (Annot.)

vascular resistance (Haddy), Pheochromocytoma, urine test for (Gitlow), 149 (Annot.)

Phonocardiograms, oscillographic and spectrographic, some fundamental relationships between (Brody, et al.), 581

Phonocardiography in interventricular septal defects (Craige), 51 Plasma albumin and red blood cells, effects of hyaluronidase upon distribution of, in normal and ischemic myocardium (Martins de Oliveira and Levy), 444

ion, blood gas and, concentrations of asphyxiated hypothermic and normother-mic rats (Willard and Horvath), 244 kinins (Huggins and Walaszek), 986

Poisoning, arsenic, acute, electrocardiogram in (Weinberg), 971

Polypeptides, depressor (Huggins and Walaszek), 976

Portal cirrhosis of liver, low incidence of myocardial infarction in patients with; review of 639 cases of cirrhosis of liver from 17,731 autopsies (Howell

and Manion), 341 Potassium and digitalis intoxication (Winsor), 151

chloride, experimental study of effect of molar sodium lactate and; quinidine

intoxication (Lee), 785 intravenous, transient effect of, on A-V conduction and ventricular ectopic beats: clinical study (Fisch, et al.), 220

serum, is not etiological agent in ventricular fibrillation following coronary artery occlusion, evidence that (Wexler occlusion, evi and Patt), 618

levels of, uremia, ECG, and (Katz), 320 (Annot.)

of dogs with acidosis and uremia, digitalis tolerance and effect of acetyl-strophan-

thidin upon (Schafer, et al.), 388 transient effect of, on A-V conduction and ventricular tachycardia produced by acetyl-strophanthidin: demonstration of supernormal conduction (Fisch, et al.), 212

Potential, zero, in electrocardiography, some reflections on (Brody and Evans), 661 (Annot.)

P-R segment, evaluation of ratio of P-wave duration to, in diagnosis of atrial enlargement (Kahn, et al.), 23

Precordial isotope-dilution curves in congenital heart disease: simple method for de-tection of intracardiac shunts (Shapiro and Sharpe), 607

Precordium, diastolic movements of, in mitral stenosis and regurgitation (Benchimol, et al.), 417

Pressure, air, ventilatory, and pulmonary vascular resistance (Harasawa and Rodbard), 73

hemodynamic determinants of rate of change in, in left ventricle during isometric contraction (Reeves, et al.), 745

Pulmonary artery and left ventricle after injection of indicators into; indicatordilution curves in valvular heart disease (Yu, et al.), 503

hypertension, primary, intracardiac infusion of acetylcholine in (Samet, et al.), 433

stenosis, isolated: signs and symptoms, course and results of operation in 75 cases diagnosed at cardiac catheterization, 159 (B. Rev.)

vascular resistance, ventilatory air pressure and (Harasawa and Rodbard), 73

esophageal, preoperative, in mitral defects, comparison with epicardial Pulse. low-frequency tracings of left atrium (Angelino, et al.), 188

Purkinje potentials in incomplete and complete bundle branch block (Medrano, et al.), 574

tissue, study of potentials of (Medrano, et al.), 562

Q wave in Leads I, aV<sub>L</sub>, V<sub>5</sub>, and V<sub>6</sub>, study at autopsy of relation of absence of, to septal fibrosis (Burch and DePas-

quale), 336
waves, transitory, simulating Q wave of
myocardial infarction (Goldman, et al.), 61

QRSsE-loop, vectorcardiographic, findings in chronic cor pulmonale (Walsh, et al.), 592

Quinidine intoxication: experimental study of effect of molar sodium lactate and potassium chloride (Lee), 785

Reference frame, triangular, improved, simple, for determination of frontal plane vector angles from limb lead data (Jordan and Beswick), 80

Regulation des Blutkreislaufs, nervale und hormonale, 842 (B. Rev.)

Regurgitation, diastolic movements of pre-cordium in mitral stenosis and (Ben-

chimol, et al.), 417
mitral, assessment of, by indicator dilution:
modification of variance method of
Korner and Shillingford (Carleton, et al.), 396

Renal circulation, central nervous control of (Meehan), 318 (Annot.)

Response, cardiovascular, to intravenous ep-inephrine, effect of alterations in arousal of central nervous system upon (Gunnells, et al.), 231

Rheumatic stenosis of aortic valve, tetralogy of Fallot with (Collins, et al.), 624 Rhythm, nodal, double, with A-V dissociation | (Jonas and Richman), 811

Ring, stenosing, supravalvular, of left atrium (Manubens, et al.), 286

vascular, congenital: report of case with survival to 62 years (Rogers, et al.),

Septal defect, ventricular, and A-V communis defect under circulatory bypass and hypothermia. Auriculotomy only (Table I) (Baer and Blount), 872

congenital, electrocardiogram, spatial gradient in (Burch and DePasquale), 195 ventricular

defects, atrial, repair of (Cohen), 1001 (Annot.)

interventricular, phonocardiography in (Craige), 51

fibrosis, study at autopsy of relation of absence of O wave in Leads I, aV<sub>L</sub>, V<sub>5</sub>, and V<sub>6</sub> to (Burch and DePasquale), 336

Serum cholesterol, use of Triparanol to lower (Goyette and Elder), 536

glutamic oxalacetic transaminase, response of, to open-heart operation (Baer and Blount), 867

potassium is not etiological agent in ventricular fibrillation following coronary artery occlusion, evidence that (Wexler and Patt), 618 levels of, uremia, ECG, and (Katz), 320

(Annot.)

of dogs with acidosis and uremia, digitalis tolerance and effect of acetyl-strophanthidin upon (Schafer, et al.), 388

Shillingford, modification of variance method of Korner and; assessment of mitral regurgitation by indicator dilution (Carleton, et al.), 396

Shunts, intracardiac, simple method for detection of; precordial isotope-dilution curves in congenital heart disease (Shapiro and Sharpe), 607

Siblings, multifocal ventricular extrasystoles with Adams-Stokes syndrome in (Berg), 965

Sigmoidoscopy, bacteremia following (Buchman and Berglund), 863

Size, heart, effect of, on oxygen uptake of myocardium (Badeer), 948

Skeletal muscle, human, cholinergic vasodilator nerves to (Glover), 321 (Annot.) vasoconstrictor innervation of (Roddie),

998 (Annot.) dreamers and (Mendlowitz), 837 Skeptics,

(Annot.) Sodium lactate antagonism, molar, of myo-cardial depressants (Somlyo), 484 (Annot.)

molar, and potassium chloride, experi-mental study of effect of; quinidine intoxication (Lee), 785

Sondergaard suture, division of P wave by (Hamer), 739

Spatial vectorcardiogram, electrocardiogram, and ventricular gradient in congenital ventricular septal defect (Burch and DePasquale), 195

study of premature systoles of canine heart by means of (Boineau, et al.),

924

Spectrographic, oscillographic and, phonocardiograms, some fundamental relationships between (Brody, et al.),

Stenosing ring, supravalvular, of left atrium (Manubens, et al.), 286

Stenosis, aortic, aid to identification of murmur of, with atypical localization (Henke, et al.), 354

surgical treatment of (Kay), 320 (Annot.) mitral, and regurgitation, diastolic movements of precordium in (Benchimol, et al.), 417

role of myocardial dysfunction in (Eich), 150 (Annot.)

pulmonary, isolated: signs and symptoms, course and results of operation in 75 cases diagnosed at cardiac catheterization, 159 (B. Rev.)

rheumatic, of aortic valve, tetralogy of Fallot with (Collins, et al.), 624 subaortic, functional, due to cardiomyopathy of unknown origin (Livesay, et al.), 955

Steroid therapy, reversion of bundle branch block with (Perkins), 134

Steroids, anabolic, studies on influence of, on experimental atheroma: 17-alphaethyl-19-nortestosterone (Nilevar) (Campbell, et al.), 799

Subaortic stenosis, functional, due to cardiomyopathy of unknown origin (Live-say, et al.), 955

Surgical treatment of aortic stenosis (Kay), 320 (Annot.)

Suture, Sondergaard, division of P wave by (Hamer), 739

Syndrome, Adams-Stokes, multifocal ventricular extrasystoles with, in siblings (Berg), 965

Systoles, premature, of canine heart, study of, by means of spatial vectorcardiogram (Boineau, et al.), 924

Systolic murmurs (Harris), 483 (Annot.)

Tachycardia, data on treatment of, with acetylcholine (Table I) (Schoolman, et al.), 528

paroxysmal, acetylcholine in differential diagnosis and treatment of (Schoolman, et al.), 526

ventricular, A-V conduction and, produced by acetyl-strophanthidin, transient effect of potassium on: demonstration of supernormal conduction (Fisch, et al.), 212

Tensor, lead: its nature and prospective applications (Brody, et al.), 840 (Annot.) Tetralogy of Fallot under circulatory bypass (Table III) (Baer and Blount), 874 with rheumatic stenosis of aortic valve (Collins, et al.), 624

Therapy, antithrombotic, 160 (B. Rev.) current—1960, 160 (B. Rev.)

Thrombus, cardiac, vascularized, as possible vicarious source of blood supply in ischemic human hearts (Rodriguez, et al.), 168

Tissue, connective, heritable disorders of, 157 (B. Rev.)

Purkinje, study of potentials of (Medrano,

et al.), 562
Tracings, low-frequency, epicardial, of left atrium. Comparison with preoperative esophageal pulse in mitral defects (Angelino, et al.), 188

Transaminase, serum glutamic oxalacetic, response of, to open-heart operation (Baer and Blount), 867

Triangular reference frame, improved, simple, for determination of frontal plane vector angles from limb lead data (Jordan and Beswick), 80

Trichinosis, experimental, in golden hamster.
II. Electrocardiographic changes
(Bernard and Sudak), 88

Triparanol, use of, to lower serum cholesterol (Goyette and Elder), 536

## T

Uremia, digitalis tolerance and effect of acetylstrophanthidin upon serum potassium of dogs with acidosis and (Schafer, et al.), 388

ECG, and levels of serum potassium (Katy), 320 (Annot.)

Urinary kinins (Huggins and Walaszek), 988 Urine test for pheochromocytoma (Gitlow), 149 (Annot.)

## V

Valve, aortic, tetralogy of Fallot with rheumatic stenosis of (Collins, et al.), 624

Valves, mitral and aortic, congenital atresia of, with vestigial left ventricle (three cases) (Lumb and Dawkins), 378

Valvular disease, mitral and aortic, value of injections of dye into left heart in study of, by catheterization of left heart (Jose, et al.), 408

heart disease, indicator-dilution curves in: after injection of indicators into pulmonary artery and left ventricle (Yu, et al.), 503

mitral, disease, pure, electrocardiographic analysis of: study based on fiftyseven cases with open-heart operation (Imperial, et al.), 705

Valvulotomy, mitral, recurrence of symptoms following, 658 (Annot.)

Variance method of Korner and Shillingford, modification of; assessment of mitral regurgitation by indicator dilution (Carleton, et al.), 396 Vascular resistance, peripheral (Haddy), 1 pulmonary, ventilatory air pressure and (Harasawa and Rodbard), 73

ring, congenital: report of case with survival to 62 years (Rogers, et al.), 281

Vasoconstrictor innervation of human skeletal muscle (Roddie), 998 (Annot.)

Vasodilator nerves, cholinergic, to human skeletal muscle (Glover), 321 (Annot.)

Vector angles, frontal plane, simple improved triangular reference frame for determination of, from limb lead data (Jordan and Beswick), 80

Vectorcardiogram, atrial, in health and disease (Scheuer, et al.), 33

diagnostic contribution of, in hemodynamic overloading of heart (Cabrera and Gaxiola), 296

spatial, electrocardiogram, and ventricular gradient in congenital ventricular septal defect (Burch and DePasquale), 195

study of premature systoles of canine heart by means of (Boineau, et al.),

924

Vectorcardiographic QRSsÊ-loop findings in chronic cor pulmonale (Walsh, et al.), 592

Veins, digital, effect of norepinephrine on (Burch and DePasquale), 915

Venous air embolism complicating angiocardiography: illustrative case report (Dotter), 454

Ventricle, left, after injection of indicators into pulmonary artery and; indicator-dilution curves in valvular heart disease (Yu, et al.), 503

hemodynamic determinants of rate of change in pressure in, during isometric contraction (Reeves, et al.), 745

vestigial, (three cases), congenital atresia of mitral and aortic valves with (Lumb and Dawkins), 378

right, of men without heart disease, estimation of residual and end-diastolic volumes of, using dye-dilution method (Freis, et al.), 898

Ventricles and great vessels of normal children, qualitative and quantitative study of (de la Cruz, et al.), 675

Ventricular angiocardiography, left, selective, evaluation of degree of mitral insufficiency by (Björk, et al.), 691

ectopic beats, transient effect of intravenous
potassium on A-V conduction and:
clinical study (Fisch, et al.), 220

extrasystoles, multifocal, with Adams-Stokes syndrome in siblings (Berg), 965 fibrillation, evidence that serum potassium

ibrillation, evidence that serum potassium is not etiological agent in, following coronary artery occlusion (Wexler and Patt), 618

gradient, electrocardiogram, spatial vectorcardiogram, and, in congenital ventricular septal defect (Burch and DePasquale), 195 Ventricular-Cont'd

hypertrophy, left, specificity of current electrocardiographic criteria in diagnosis of (Chou, et al.), 371

right, electrocardiographic diagnosis of: correlation with anatomic findings (Scott), 659 (Annot.)
myocardium, human, needle biopsy of: re-

view of 54 consecutive cases (Sutton and Sutton), 364

septal defect, congenital, electrocardiogram, spatial vectorcardiogram, and ven-tricular gradient in (Burch and De-

Pasquale), 195 tachycardia, A-V conduction and, produced by acetyl-strophanthidin, transient effect of potassium on: demonstration of supernormal conduction (Fisch, et al.), 212

volume, left, use of biplane angiocardiog-raphy for measurement of, in man

(Dodge, et al.), 762

Ventriculotomy; ventricular septal defect under circulatory bypass and hypothermia (Table II) (Baer and Blount), 873

Vessels, blood, human, local effect of carbon dioxide on (Diji and Greenfield), 907 great, qualitative and quantitative study of

ventricles and, of normal children (de la Cruz, et al.), 675

Vestigial left ventricle, congenital atresia of mitral and aortic valves with, (three cases) (Lumb and Dawkins), 378

Volume, left ventricular, use of biplane angiocardiography for measurement of, in man (Dodge, et al.), 762

Volumes, residual and end-diastolic, of right ventricle of men without heart dis-ease, estimation of, using dye-dilution method (Freis, et al.), 898

Walking, prolonged, blood flow in human calf after (Halliday), 110

Wasp kinin (Huggins and Walaszek), 989

Water, body, and ions, basic facts of, 668 (B. Rev.)

content of ischemic myocardium, effect of hyaluronidase upon (Martins de Oliveira and Levy), 106

Waves, Q, transitory, simulating Q wave of myocardial infarction (Goldman, et al.), 61

Willis, circle of. Functional concepts, old and new (Hale), 491

Work and heart, 161 (B. Rev.)

Zero potential in electrocardiography, some reflections on (Brody and Evans), 661 (Annot.)

